

What is claimed is:

1. A biosensor monitor having an opening on an upper protective cover and an lower protective cover to receive a test strip with added drop of blood for electrochemical reaction, the results of which will be analyzed
5 through a circuit board under the upper protective cover and transmitted through a communication port via mobile phone to an internet server; wherein the improvement of the biosensor monitor is characterized in that the said biosensor monitor also houses a lancer for blood inoculation to make it a two-in-one design of structures.
- 10 2. The biosensor monitor according to claim 1, wherein a LCD display is mounted on the said upper protective cover to show the test results.
3. The biosensor monitor according to the claim 1, wherein the lancer, mounted inside the upper and lower protective cover, comprising :
 - a. an inner tube, mounted on the stationary lower protective cover,
15 has a spring fixed on one end and a opening slot to engage with the protrusion on the inner wall of the outer tube. This inner tube has teeth to guide the rotation of the connecting rod as it moves along.
 - b. an adaptor to fix the spring on the other end and to fit loosely with
20 the connecting rod, so that the connecting rod can rotate freely relative to the non-rotatable adaptor.

c. a connecting rod which connects loosely to the said adaptor and tightly to the needle receiver. This connecting rod has a triangular protrusion to engage with the teeth of the said inner tube and the teeth on the inner wall of the outer tube, to guide the rotation of the connecting rod relative to the said inner tube and the outer tube.

d. an outer tube wherein the teeth on the inner wall of the outer tube engages with the triangular protrusion of the said connecting rod.

e. a needle receive, which connects tightly to the said connecting rod, mounts the needle.

f. a needle which sits on the said needle receiver.

g. a needle cover, which has a hole for needle to go through and engages with the said outer tube to adjust the depth of needle penetration into the skin, sits inside the needle protective cover.

h. a needle protective cover which houses the said needle cover.

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